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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/611,649	07/07/2000	Matthew T. Uyttendaele	149497.2	6505

27662 7590 07/09/2003

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EXAMINER

WU, JINGGE

ART UNIT	PAPER NUMBER
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2623

DATE MAILED: 07/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/611,649

Applicant(s)

UYTTENDAELE ET AL.

Examiner

Jingge Wu

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 June 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-5, 7-21 and 23-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 1-5, 7-21, 23-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

Response to Amendment

1. Applicants' response to the last Office Action, filed June 2, 2003 has been entered and made of record.
2. The rejection of claims 6 and 22 are rendered moot by applicant's cancellation of those claims.
3. Applicants' amendment has required new grounds of rejection. New grounds rejection are therefore presented in the Office Action.
4. Applicant's arguments with respect to claims 1-30 have been fully considered but are moot in view of the new ground(s) of rejection.

Remarks

5. Applicant's arguments with respect to claims 1-30 have been fully considered, but they are not persuasive.

a. Applicant argues that Furlan does not have the limitation of each frame segment is appended with an identifier that identifies what frame segment location.

Examiner disagrees. However, in response to applicant's argument, Examiner would like to point out that claim language is given its broadest reasonable interpretation. Furlan expressly teach that tile streaming (fig. 4 and 12) that "each tile position is assigned its own multicast channel" (col. 12 lines 12-13), which is read on the claim language.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-5, 7-21, 23-30 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6337708 to Furian et al. (a reference of record).

As to claim 1, Furian discloses a process of encoding frames of a panoramic video so as to allow selective decoding of the frame, comprising the process actions of:

segmenting each frame of the panoramic video into plural corresponding regions (tiles, col. 4 lines 65-67); and

separately encoding each region of the panoramic frames (col. 4 lines 65-67), wherein encoding the frame regions of the panoramic video comprises creating at least one data file comprising the data associated with each frame region of each frame of panoramic video (col. 5 line 17-col. 6 line 37) and an indicator (assignment of tile position) associated with the data of each frame region that identifies its corresponding panoramic video frame and its location within that frame (Fig. 4-6, and 12, col. 5 line 17-col. 7 line 56, col. 12 lines 6-20, col. 15-16).

As to claim 2, Furian further discloses segmentation of the panoramic video into tiles pattern (Figs. 4-5, col. 4 lines 65-67).

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As to claim 3, Furian further discloses the action of decoding only those encoded regions of each panoramic video frame needed to display a prescribed portion of the scene depicted by each frame (col. 7 line 18-col. 8 line 43,).

As to claim 4, the limitations are addressed with regard to claim 1.

As to claim 5, Furian further discloses for each frame, obtaining information, as to what portion of a scene depicted by the frame under consideration of user and sending only those frame portions to the user (col. 11 line 50-col. 12 line-58).

As to claims 7-10, Furain further discloses creating data file for each tile (tile streaming Fig. 4 ,9 and 12), creating an indicator for each separated region (tile) (Fig. 4-6, 12, col. 5 line 17-col. 7 line 56, col. 12 lines 6-20), sending the data file from a server to client (Fig. 4).

As to claims 11-13, Furain further discloses a user can view only a portion of the panoramic video by identifying what portion the user wants to view, and the sever will send data files comprising the portion identified to the viewer on client side via two way communication network (col. 7 line 18-col. 8, col. 11-col. 12).

As to claim 14, Furain further discloses storage medium accessible by the viewer (Fig. 4 and 10).

As to claim 15, the limitations are addressed with regard to claims 11-13.

As to claims 16-21, 23-30, the limitations are addressed with regard to claims 1-5, 7-15.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications should be directed to Jingge Wu whose telephone number is (703) 308-9588. He can normally be reached Monday through Thursday from 8:00 am to 5:30 pm. The examiner can be also reached on second alternate Fridays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Amelia Au, can be reached at (703) 308-6604.

The Working Group Fax number is (703) 872-9314.

Jingge Wu

Primary Patent Examiner

